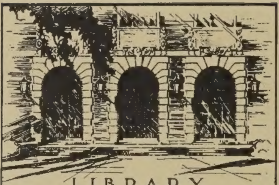

CANON PELLIANUS

sive

TABULA

simplicissimam aequationis celebratissimae:

$y^2 = ax^2 + 1$

solutionem, pro singulis numeri dati valoribus

AB 1 USQUE AD 1000,

in numeris rationalibus iisdemque integris exhibens,

AUTORE

Carolo Ferdinando Degen,

DR. PHILOS. ET IN UNIV. REG. HAVNIENSI MATH. PROF. P. O. REG. SOC. SC. ET SOC. SCANDINAV. SODALI.

Est data Lex numeris magnorum horrenda laborum.

METAM. V. 8.

HAFNIAE.

Apud Gerhardum Bonnierum.

MDCCCXVII.

Consideratio numerorum quamvis plerisque omni usu carere videatur, tamen per se non solum admodum est jucunda, sed etiam animum ad veritatis indagationem non mediocriter acuit eiusque vires magis intendit. Maxime enim abundat doctrina numerorum veritatibus abstrusissimis, quarum investigatio tantam ingenii penetrationem postulat, ut nunquam cuncta, quæ involvit, mysteria erui et explicari posse videantur.

Nov. Comment. Petrop. Tom. IX. pag. 5.

VIRIS

ET DOCTRINÆ ET HUMANITATIS LAUDE

ORNATISSIMIS

IISDEMQUE COLLEGIS

IN PROFESSIONE MATHEMATICA

CONJUNCTISSIMIS,

JACOBO WOLFIO

MATHEM. PROF. P. ORD. S. R. M. A CONSILIIS STATUS ET ORDINIS DANNEBROGICI EQUITI AURATO;

ENRICO CHRISTIANO SCHUMACHER

J. U. DR. ET ASTRONOMIAE PROF. P. ORD.;

ERASMO GEORGIO FOG THUNE

DR. PHILOS. ET MATH. IN UNIV. HAVN. LECTORI.

Tertium jam volvente anno sæculari

Patriæ maxime memorabili,

almæque Universitati Havniensi festissim

pium & fraternum animum testaturus,

volumine brevem, calculi labore prolixar

hanc opellam,

ea qua par est verecundia & observantia,

offert, dicat atque consecrat

Autor.

INTRODUCTIO.

Quemadmodum immensam Universi molem
ι dispertitam conspicimus ut minores massæ
um hanc legem sequatur, non usque chao-
cæ] portiones majoribus quibusdam sese
ngere hasque ceu sociæ comitari [clandesti-
ι quasi vi propellente] cogantur: ita in in-
llectuali scientiæ mathematicæ mundo vi-
emus immensum combinationum numerum
rca certas quasdam formas, hoc ipso præ
teris conspicuas & memorabiles, versari &
rca easdem quasi polos gyrari. Est adeo,
in coelo polorum, ita in mathesi harum
rmarum investigatio atque determinatio res
aximi nomenti. Quis nescit quantum in
ιiversa sublimiori artis regione notissimis

formis $e^{\pm x}$, $e^{\pm y\sqrt{-1}}$ tribuendum sit? quar
ingens problematum difficillimorum numeru
recto earum usu expediatur felicissime? Ec
quem fugerit quam insigne calculorum com
pendium contulerit utilissima illa functic
quæ Logarithmi nomine veniat? alias simile
ut taceamus.

Neque tamen ejusmodi functionibus
formis tribuenda est utilitas omnibus numeri
absoluta, nisi, cum sæpius occurrant, qu
sæpius denuo computanda forent, semel com
putentur & computata in Tabulas commod
redigantur. Operæ igitur pretium me feci
se credo, quod numericam celebratissim
Æquationis Pellianæ solutionem, ad quai
quippe redeant pleræque solutiones proble
matum diophanteorum secundi gradus, pr
millenis valoribus numeri cogniti susceperi
atque in præsenti Tabula exhibuerim, de cuiu
usu atque constructione perpauca in mediur
allaturus sum, cum uberior theoriæ, cui s
perstructa est, expositio in scriptis virorur
immortalium Euleri, Lagrange, Legendre a
que τȣ̃ πανυ Gaussii quæri debeat.

I.

uomodo ad œquationem Pellianam ducant indeterminata quœ dicuntur problemata secundi ordinis.

Proposita æquatione:

$$Ay^2+Bxy+Cx^2+Dy+Ex+F=0,$$

eadem ad formam simpliciorem reducatur, ponamus $ly+Bx+D=t$, cuius quadratum

$$4A^2y^2+4ABxy+B^2x^2+4ADy+2BDx+D^2=t^2$$

æquatione data, per $4A$ multiplicata, minuatur, residuam æbebit æquationem:

$$t^2=(B^2-4AC)x^2+2(BD-2AE)x+D^2-4AF$$

e $t^2=Lx^2+2Mx+N$

sito, brevitatis ergo,

$$L=B^2-4AC,\ M=BD-2AE\ \&\ N=D^2-4AF.$$

nstat autem valorem ipsius t rationalem reddi posse

1) si fuerit aut L aut N numero quadrato æqualis;

2) si fuerit $M^2-LN=$ numero quadrato; id est, si $x^2+2Mx+N$ in factores rationales solvi posse deprendatur.

Sit primo $L=G^2$ & $t=Gx+u$, erit t^2 : $G^2x^2+2Gxu+u^2=G^2x^2+2Mx+N$

e $x=\dfrac{N-u^2}{2(Gu-M)}=\dfrac{u^2-N}{2[M-Gu]}.$

Ut hinc pro x & t valores integri eliciantur, specnda est indoles numerorum G, M, N. Scilicet si fuerit

$$1)\ u = \frac{M \pm 1}{G} = \text{numero integro}\ \&\ 2)\ N - u^2\ \text{s}$$

$u^2 - N$ = numero pari, radix x in numeris integris semper obtinebitur. Deinde vero etiam requiritur ut sit $y = \frac{Gx + u - (Bx + D)}{2A} = \frac{(G - B)x + u - D}{2A}$ = integro.

Compluribus igitur conditionibus premitur primu ille casus, quo $L = G^2$ statuitur. Neque id mirandun cum dentur expressiones hac $G^2x^2 + 2Mx + N$ multo simpliciores, quæ omnem solutionem in numeris integris irritam reddant. Videamus jam quidnam ex hypothesi secunda: $N = H^2$ sequatur.

Posito $t = H + ux$, erit $t^2 = Lx^2 + 2Mx + H^2 = H^2 + 2Hux + u^2x^2$ sive $Lx + 2M = 2Hu + u^2x$ siv $x = \frac{2(M - Hu)}{u^2 - L}$, quæ expressio, posito $u = \frac{w}{v}$ abit i $x = \frac{2(Mv - Hw)v}{w^2 - Lv^2}$. Quodsi jam apud nos fuerit ut denominator fiat unitati æqualis, sive ut pro dato quovis numer integro L obtineri queant numeri integri w & v æquation $w^2 = Lv^2 + 1$, (ipsi, quam *Pellianam* dicimus) satisfacientes, habebitur

1) $x = 2(Mv - Hw)v$ &

2) $\pm t = H + 2(Mv - Hw)w$

Hos autem ipsarum w & v valores, si numerus $L = B^2 - 4AC$ millenarium non excesserit, jam computatos exhibe Tabula nostra. Ita si quæritur valor ipsius x integer æquationi $t^2 = 539x^2 + 174x + 27556$ satisfacturus, ol $N = 166^2$ erit $H = 166$ & $L = 539$. Postremo huic numero respondent in Tabula valores $v = 171$ & $w = 3970$

are cum sit $M=87$ habebitur $x=2\cdot[87\cdot171-166\cdot$
70]$\cdot171=-110148453\cdot2=-220296906$, cui va-
ri respondet $t=\pm5114495254$, quos, cum valores w &
in Tabula exhibiti sint *minimi*, simul esse minimos facile
rspicitur.

Consideremus nunc casum, quo $M^2-LN=K^2$.
oc obtinente, reperietur $t^2=(Lx+M+K)\left(x+\frac{M-K}{L}\right)$
$(Lx+M-K)\left(x+\frac{M+K}{L}\right)$.

Ponimus autem L, M & N esse integros; ergo et K
it integer; quare si L fuerit numerus primus, evidens est
t $M+K$ aut $M-K$ per L esse dividuum, quoniam
$I+K)(M-K)=M^2-K^2=L.N$; adeoque in ge-
re statuere licet $Lx^2+2Mx+N=t^2=(Lx+G)$
$+H)$, unde posito $t^2=\frac{w^2}{v^2}\cdot(x+H)^2$ fit $Lx+G=$
$(x+H)$ sive $x=\frac{Hw^2-Gv^2}{Lv^2-w^2}=\frac{Gv^2-Hw^2}{w^2-Lv^2}$. Sic ite-
m ad æquationem Pellianam deducimur. Quapropter,
m ejus solutio pro quovis numero L integro in potestate
, et exc. exc. e Tabula depromi possit, habebimus,
to $w^2=Lv^2+1$,

$x=Gv^2-Hw^2$, atque $x+H=Gv^2-H(w^2-1)$
Gv^2-LHv^2 ideoque $t=wv\,.[G-LH]$. obtinebi-
r igitur etiam hoc casu, dummodo numerus L fuerit
imus, valor radicis x in numeris integris.

Præter casus hic indicatos illum adhuc contemplabi-
ur, quo, cognita solutione particulari æquationis genera-
simæ

$$Ay^2+Bxy+Cx^2+Dy+Ex+F=0,$$

scilicet $x = f$ & $y = g$, novas et numero infinitas ex ea-
dem solutiones deduci posse monstrabimus. Hunc in fine
statuamus novos istos valores fore $x' = x + \Delta x$ & $y' =$
$+ \Delta y$. Tum sumendis more solito differentiis, prodibit

$$\Delta(x^2) = 2x\Delta x + \Delta x^2;\ \Delta(xy) = x\Delta y + y\Delta x +$$
$$\Delta x\Delta y;\ \Delta(y^2) = 2y\Delta y + \Delta y^2.$$

Ut adeo solutiones $x, y; x', y';$ simul obtineant, neces
est, differentiam æquationis propositæ itidem evanescer
prout ipsa ad nihilum reducta repræsentatur. Hinc habe-
bitur

$$2Ay\Delta y + A\Delta y^2 + Bx\Delta y + By\Delta x + B\Delta x\Delta y +$$
$$2Cx\Delta x + C\Delta x^2 + D\Delta y + E\Delta x = 0$$

Faciamus jam, quod semper licebit, $\Delta x = pz$ & $\Delta y =$
$- qz$, & erit, introducendis valoribus cognitis $f = x$ &
$g = y$, facta divisione per z,

$$- 2Agq + Aq^2 z - Bfq + Bgp - Bpqz + 2Cf$$
$$+ Cp^2 z - Dq + Ep = 0$$

unde hauritur $z = \dfrac{(2Ag + Bf + D)q - (2Cf + Bg + E)p}{Aq^2 - Bpq + Cp^2}$

Investigemus jam, quibus in casibus fieri possit Aq
$- Bpq + Cq^2 = 1$, sive $q = \dfrac{Bp \pm \sqrt{(BB - 4AC)p^2 + 4}}{2A}$

$= \dfrac{Bp \pm \sqrt{Lp^2 + 4A}}{2A}$?

Cum hæc expressio, facto $p = 2r$, abeat in sequen-
tem: $q = \dfrac{Br \pm \sqrt{Lr^2 + A}}{A}$

evidens est, casu $A = 1$, novas solutiones in numeris inte-
gris semper & nullo quidem negotio posse obtineri, quæ

ndo in Canone nostro numerum s eiusmodi, ut sit
$= Lr^2 + 1$; tum enim
$q = Br \pm s$ & $p = 2r$, reperietur

$$z = \pm (2Ag + Bf + D)\ Br \mp (2Ag + Bf + D)s \pm (2Cf + Bg + E) \cdot 2r$$

$$x' = f + pz = f \pm 2rz,\ y' = g - qz = g \mp Brz \mp sz$$

i tam r quam s positive & negative sumere licebit. Trix membri signum indicat, idem plane arbitrarium mare, cum contra plura signa duplicia, prout adhiberi solt, relatione signi superioris & inferioris inter se conctantur.

Si vero acciderit ut valor ipsius A ab unitate differat, meri quos in Tabula *Legi Periodi* subjecimus, non son istos numeri A valores monstrabunt, pro quibus solu- possit obtineri, sed & ipsam solutionem suppeditabunt. si fuerit $L = 539$ & $A = +1, -10, +25, -19, +22$, utionem æquationis $539r^2 + A =$ *numero quadrato & egro:* reperire licebit, methodo mox tradenda. Sic pro $= 22$ habebitur, ope Legis periodi, $r = 9$ & $\sqrt{539r^2 + 22}$ $= 209$. Ut vero etiam q fiat integer, necesse est sit (casu empli hic assumti) $9B \pm 209$ per 22 divisibilis, id quod redit, ut sit B impar & per 11 divisibilis; quare, nisi erit $A = 1$, pro generali hac eademque simplicissima nditione, aliæ eæque diversissimæ indolis introducentur, ibus coëfficientes B & C adstringantur. His tamen id lum innuimus, quod *immediata* quam dicunt solutionis

æquationis $Aq^2 - Bpq + Cp^2 = 1$

æquationem Pellianam *reductio* valorem $A = 1$ suppot. Etenim & universalem eadem illa æquatio solutionem

recipit. De gravissimo hoc argumento pro more suo (eleganter & perspicue) præcepit Illustr. *Legendre* in eximi illo Tractatu *(Theorie des Nombres)* Ed. 2. pag. 93-96.

II.

De subsidio e fractionum continuarum evolutione ad æquationis Pellianæ solutionem petendo.

Proposita æquatione $y^2 = ax^2 + 1$ per numeros integros solvenda sufficiet unicam solutionem investigasse hac enim inventa, puta $x = f$ & $y = g$, novus valor reperietur

ipsius x; $x' = 2fg$

ipsius y; $y' = 2g^2 - 1$

Etenim, ob $g^2 - 1 = af^2$ erit

$$4g^4 - 4g^2 = 4af^2g^2 \text{ atque}$$

$$4g^4 - 4g^2 + 1 = 4af^2g^2 + 1 \text{ sive}$$

$$(2g^2 - 1)^2 = a.(2fg)^2 + 1$$

Novi adeo valores, & quidem, ubi de numeris integris agitur, inventis majores, erunt $x' = 2fg$ & $y' = 2g^2 - 1$

Inventis autem ξ & η æquationi $\eta^2 = a\xi^2 - 1$ satisfacientibus, habetur $x = 2\xi\eta$ & $y = 2\eta^2 + 1$; nam ob $\eta^2 + 1 = a\xi^2$ erit $4\eta^4 + 4\eta^2 = 4a\eta^2\xi^2$, unde, ut ante reperitur $(2\eta^2 + 1)^2 = a.(2\xi\eta)^2 + 1$ sive $y^2 = ax^2 + 1$.

Etsi autem in genere satisfaciant valores $x = 0$ & $= 1$, tamen hinc nihil novi reperietur. Aliam igitur m ingressi sunt Analystæ. Observarunt problematis so-ionem a radice quadrata numeri cogniti (a) pendere, n utriusque fractionis $\frac{y}{x}$ & $\frac{\eta}{\xi}$ valor sit radici $\sqrt{a}$ quam ɔximus. Ponamus igitur, ut determinatus ipsius a va- et universi calculi ratio menti obversetur & memoriæ ıæreat, quærendam esse radicem numeri 209, quam no-ıus esse > 14 & < 15, & indicemus eandem brevitatis ıtia littera R, ita ut sit $R^2 = 209$. His stabilitis patet e $R = 14 + \frac{1}{\alpha}$ & $\alpha > 1$.

$$\text{are cum } \alpha = \frac{1}{R-14} = \frac{R+14}{209-14^2} = \frac{R+14}{13} = 2 + \frac{1}{\beta}$$

$$\text{erit } \beta = \frac{13}{R-12} = \frac{13(R+12)}{209-12^2} = \frac{R+12}{5} = 5 + \frac{1}{\gamma}$$

$$\text{—} \ \gamma = \frac{5}{R-13} = \frac{5(R+13)}{209-13^2} = \frac{R+13}{8} = 3 + \frac{1}{\delta}$$

$$\text{—} \ \delta = \frac{8}{R-11} = \frac{8(R+11)}{209-11^2} = \frac{R+11}{11} = 2 + \frac{1}{\varepsilon}$$

$$\text{—} \ \varepsilon = \frac{11}{R-11} = \frac{11(R+11)}{209-11^2} = \frac{R+11}{8} = 3 + \frac{1}{\zeta}$$

$$\text{—} \ \zeta = \frac{8}{R-13} = \frac{8(R+13)}{209-13^2} = \frac{R+13}{5} = 5 + \frac{1}{\eta}$$

$$\text{—} \ \eta = \frac{5}{R-12} = \frac{5(R+12)}{209-12^2} = \frac{R+12}{13} = 2 + \frac{1}{\theta}$$

$$\text{—} \ \theta = \frac{13}{R-14} = \frac{13(R+14)}{209-14^2} = \frac{R+14}{1} = 28 + \frac{1}{\alpha}; \text{ergo}$$

$$\alpha = \frac{1}{R-14} = \frac{R+14}{209-14^2} = \frac{R+14}{13} = 2 + \frac{1}{\beta}$$

& ita porro.

Videmus hic, cum perventum fuerit ad numerum δ, cui
pars integra est $= 2$, partes integras sequentium numero
rum ε, ζ, η, ordine retrogrado procedere, partibus nim
rum integris numerorum γ, β, α æquales; deinde, introdu
tum numerum θ, cuius pars integra æqualis sit duplo rad
cis in numeris integris proximæ. Totus autem hicce ca
culus insignem in modum contrahetur sequenti schema
conficiendo:

$\underbrace{\;}_{}$ 14 A B	C	D Quotus e divisione	C est	E: B C 14
$209-14^2=1\cdot 13$	2	$(14+14):13$	2	$13\cdot 2-14=1$
$209-12^2=13\cdot 5$	5	$(14+12):5$	5	$5\cdot 5-12=1$
$209-13^2=5\cdot 8$	3	$(14+13):8$	3	$8\cdot 3-13=1$
$209-11^2=8\cdot 11$	2	$(14+11):11$	2	$11\cdot 2-11=1$
$209-11^2=11\cdot 8$	3	$(14+11):8$	3	$8\cdot 3-11=1$
$209-13^2=8\cdot 5$	5	$(14+13):5$	5	$5\cdot 5-13=1$
$209-12^2=5\cdot 13$	2	$(14+12):13$	2	$13\cdot 2-12=1$
$209-14^2=13\cdot 1$	28	$(14+14):1$	28	
&c.		&c.		&c.

Originem numerorum sub *C* ponendorum indicat Col. *D*, il
lorum vero qui sub *A* (& *B*) reperiuntur (atque *initio* ta
tum, non *ordine* differunt) explicat Col. *E*. Horum nu
merorum priores prima, posteriores secunda series in T
bula numero cuivis dato a (hic 209) adscripta exhibet,
medium, unde nempe incipit retrogradus ille ordo, ta
tummodo continuata, quem adeo, ut distinguatur a rel
quis, uncinulis inclusimus. Pro certis nimirum ipsius a va
loribus, quos in *Appendicem* s. Tab. 2. retulimus, evenit,

lius ille terminus bis occurrat, id quod indicat valores y, methodo jam tradenda reperiundos, non æquationi $= ax^2 + 1$ sed alteri $y^2 = ax^2 - 1$ convenire, cuius lem solutionem numericam ut in Tab. II. seorsim exrem fuere plures quæ me suaderent rationes, præser- uniformitatis servandæ studium.

Inventa, modo ante insignito, radice

$$\overline{09} = 14 + \cfrac{1}{2 + \cfrac{1}{5 + \cfrac{1}{3 + \cfrac{1}{2 + \&c.}}}}$$

ores ad ipsam magis magisque appropinquantes facile re-iuntur ope diagrammatis Lambertiani, sequentem in dum conficiendi:

[$a = 209$]

A	C	x	y
		1	0
- 1	14	0	1
- 13	2	1	14
- 5	5	2	29
- 8	3	11	159
- 11	(2)	35	506
- 8	3	81	1171
5	5	278	4019
- 13	2	1471	21266
+ 1	28	3220	46551

Productum cuiuslibet x aut y, per numerum sub C e regione positum, si proxime præcedenti x aut y addatur, præbebit valorem sequentis x aut y.

Ita est $278 = 3 \cdot 81 + 35$
& $4019 = 3 \cdot 1171 + 506$.
item: $3220 = 2 \cdot 1471 + 278$
& $46551 = 2 \cdot 21266 + 4019$
& sic de reliquis.

Numeri Columnæ *A*, quos nota generali $\pm n$ deno tabo, ita cum valoribus x & y cohærere deprehenduntur u semper sit $ax^2 \pm n = y^2$ sive $y^2 - ax^2 \mp n = 0$. Huiu æquationis solutio, adhibendo signum adscripto contra rium, ex evolutione fractionis continuæ ope diagrammat hic delineati, nullo negotio innotescet. Ita si quæras, qui nam valores ipsarum x & y æquationi $y^2 - 209x^2 - 5 =$ satisfaciant, e regione τῦ $n = 5$ (Col. *A*) reperies confe stim geminam solutionem:

scil. $x = 2$ & $y = 29$; $x = 278$ & $y = 4019$.

Numeri autem autem $x = 3220$ & $y = 46551$, e region τῦ $n = 1$ sunt ipsæ radices æquationis Pellianæ, iidemqu quos ad $a = 209$ Tabulæ insertos reperies.

Casum, quo medius ille terminus bis occurrat, habe sequenti exemplo:

	13		A	B	C
$173 -$	13^2	$=$	1	· 4	6
$173 -$	11^2	$=$	4	· 13	[1
$173 -$	2^2	$=$	13	· 13	1]
$173 -$	11^2	$=$	13	· 4	6
$173 -$	13^2	$=$	4	· 1	26
	&c.				&c.

[$a = 173$]

A	C	x	y
		1	0
+ 1	13	0	1
− 4	6	1	13
+ 13	1	6	79
− 13	1	7	82
+ 4	6	13	171
− 1	26	85	1118

Ob terminos medios 1 (Col. *C*) & 13 (Col. *A*) repetitos evi dens est, signa in posteriori periodi dimidio illis opposit fore, quæ prioris dimidii æqualibus & a mediis illis æqu

antibus numeris respondeant. Quare nunc in potestate tra erunt solutiones æquationum

$$y^2-173x^2\pm1=0;\ y^2-173x^2\pm4=0;\ y^2-173x^2\pm13=0.$$

t ergo $y^2-173x^2+1=0$ si fuerit $x=85$ & $y=1118$, que valores in Appendicem Tabulæ contulimus. Ut o hinc eliciantur radices æquationis $y^2-173x^2-1=0$, i debet $x=2\cdot85\cdot1118=190060$ & $y=2\cdot1118^2+1$ 2499849, uti easdem radices exhibet Tabula nostra.

III.

nonnullis artificiis, quibus facilior redditur Canonis hujusmodi constructio.

Jamdudum observarunt acutissimi harum rerum inigatores, pro numeris a certæ formæ, v. c. $a=p^2\pm1$ $=p^2\pm2$, radices x & y in promtu esse. Fiat scilicet

pro $a=p^2\pm1$, $x=2p$ et erit $y=2p^2\pm1$

pro $a=p^2\pm2$, $x=p$ .... $y=p^2\pm1$.

1: pro $a=p^2\pm p$, $x=2$ .... $y=2p\pm1$

quibus casibus addere licet generaliores hosce:

ro $a=n^2p^2\pm n$ fiat $x=2p$ et erit $y=2np^2\pm1$

ro $a=n^2p^2\pm2n$..... $x=p$ .... $y=np^2\pm1$

sumtis pro n & p numeris quibuslibet integris.

Deinde observandum est, quoties $a = \alpha q^2$, ipsiq
$\alpha\xi^2 + 1 = \eta^2$ respondeat radix ξ aut η per q divisibilis, tu
fore $x = \frac{\xi}{q}$ & $y = \eta$, casu quo ξ; sed $x = \frac{2\xi\eta}{q}$ & $y = 2$
$- 1$ casu quo η per q dividi posse deprehenderis.

Ita cum τῷ $\alpha = 84$ respondeat $\xi = 6$ & $\eta = 5$
manente $y = 55$, patet

ipsi $a = 2^2 \cdot 84 = 336$ respondere $x = \frac{6}{2} = 3$
.... $a = 3^2 \cdot 84 = 756$ .... $x = \frac{6}{3} = 2$
.... $a = 6^2 \cdot 84 = 3024$ .... $x = \frac{6}{6} = 1$.

Item manente $y = 2\eta^2 - 1 = 2 \cdot 55^2 - 1 = 6049$
ipsi $a = 5^2 \cdot 84 = 2100$ respondebit $x = \frac{2.6.55}{5} = 132$
...... $a = 11^2 \cdot 84 = 10164$ .... $x = \frac{2.6.55}{11} = 60$

Nemo autem, quod equidem sciam, animadverti
numeros a formæ $(2p + 1)^2 \pm 4$ solutionem generalem,
fractionum continuarum evolutione minime pendenter
admittere. Quare analyseos diophanteæ amatoribus hau
ingratum fore spero, si geminum huc spectans theorem
prætermissa demonstratione, quam quilibet huius artis p
ritus, synthetice saltem, facillime ipse sibi concinnab
in præsenti commentariolo, ceu loco huic argumento max
me idoneo, cum iisdem communicavero.

THEOREMA I.

Si fuerit $a = (2p + 1)^2 - 4 = 4p^2 + 4p -$
$= (2p + 3)(2p - 1)$

erunt radices æquationis $y^2 - ax^2 - 1 = 0$

$$x = 2p(p + 1) \;\&\; y = (2p + 1)(2p^2 + 2p - 1)$$

THEOREMA 2.

Si fuerit $a = (2p + 1)^2 + 4 = 4p^2 + 4p + 5$
$4(p^2 + p + 1) + 1$
erit $x = 4(2p + 1)(p^2 + p + 1)(2p^2 + 2p + 1)$
& $y = 8(2p + 1)^2 \cdot (p^2 + p + 1)^2 + 1.$

, si $p = 4$, habebimus pro $a = 9^2 - 4 = 77$,
valores $x = 8 \cdot 5 = 40$; $y = 9 \cdot 39 = 351$
pro a vero $= 9^2 + 4 = 85$, $x = 4 \cdot 9 \cdot 21 \cdot 41 = 30996$;
$y = 8 \cdot 9^2 \cdot 21^2 + 1 = 285769$

orem typothetæ, quo factum est ut Tabula, quam Il-
tr. *Eulerus* Nov. Comm. Acad. Petrop. Tom. XI. pag. 64
55 inseruit, ad $a = 85$ pro $x = 30996$, hunc valorem
30906 exhibeat, ita corrigere licuit. Graviorem vero,
ı typothetæ sed ipsi autori tribuendum, eiusdem Theore-
tis 2di beneficio deteximus et emendavimus, scil. ad
$= 53 = 7^2 + 4$, ubi, ob $p = 3$, congruit quidem ipsius
alor $= 4 \cdot 7 \cdot 13 \cdot 25 = 9100$, discrepat vero $y' = 33125$;
quo scilicet scribi debet $y = 8 \cdot 7^2 \cdot 13^2 + 1 = 66249$
$2y' - 1$.

Addimus hic methodum, cuius ope, post exhaustos
us x valores, radicis y valor, æquationi Pellianæ satis-
ens, facillime reperietur. Huius methodi ratio ex iis
ime perspicietur quæ *Arithmeticœ universalis* Cap. 8vo
ridiana sane luce splendentia, de fractionibus continuis
lidit sagacissimus KRAMP, non unius ille facultatis ana-
cæ autor celeberrimus.

	x	y
C	1	0
R..................................	0	1
α..................................	1	R
β..................................	α	$R\alpha+1$
γ..........................	$\beta\alpha+1$	$R(\beta\alpha+1)+\beta$
δ..................	$\gamma\beta\alpha+\gamma+\alpha$	$R(\gamma\beta\alpha+\gamma+\alpha)+\gamma\beta+1$
ε...	$\delta\gamma\beta\alpha+\delta\gamma+\delta\alpha+\beta\alpha+1$	$R(\delta\gamma\beta\alpha+\delta\gamma+\delta\alpha+\beta\alpha+1)+\delta\gamma\beta+\delta+$
	&c.	&c.

Præsentis nempe diagrammatis indolem propius inspicien-tibus patebit, illud typum generalem methodi ante tradit[...] referre. Valores hosce ipsarum x & y generales idone[...] *Mediatorum* nomine insignivit Vir Cl., commoda ha[...] notatione adhibita, ut elementorum α, β, γ, δ ...... sign[...] litteris majusculis, quas uncinulis inclusit, repræsenten-tur. Ita

$$\left.\begin{array}{r} \gamma=(\beta\alpha+1)\text{ per } (AB) \text{ aut } (BA) \\ \delta=(\gamma\beta\alpha+\gamma+\alpha)\text{ per } (AC) \text{ aut } (CA) \\ \varepsilon=(\delta\gamma\beta\alpha+\delta\gamma+\delta\alpha+\beta\alpha+1)\text{ per } (AD) \text{ aut } (DA) \\ \text{\&c.} \qquad \text{\&c.} \end{array}\right\}\text{notatione com- moda \& diluc- da exhibentur}$$

Ponamus jam elementa ipsi C subjecta casu dato n^{tum} usque (quod esto ν) procedere, ita ut series illa sit

$$R,\ \alpha,\ \beta,\ \gamma,\ \delta,\ \varepsilon,\ \zeta,\ \ldots\ldots\ldots\ \varkappa,\ \lambda,\ \mu,\ \nu,$$

ob periodi symmetriam:

$$R,\ \alpha,\ \beta,\ \gamma,\ \delta,\ \varepsilon,\ \zeta,\ \ldots\ldots\ldots\ \delta,\ \gamma,\ \beta,\ \alpha;$$

ıe post elementum ν sive α intrare terminum $2R$, cuius gione reperiuntur radices æquationis $y^2 = ax^2 \pm 1$; atis valoribus x & y in superiori diagrammate sibi respontibus, perspicietur fore $y = Rx + (BN) = Rx + (MA)$ n differunt enim β & μ, ν & α] $= Rx + (AM)$.

Est scil. semper $(MA) = (AM)$; & cum manio sit $x = (AN)$, erit (AM) mediator ipsum (AN), id ipsam x proxime præcedens. Posito igitur præcedente valore $= x_1$ erit $y = Rx + x_1$

Ita, ut exemplum aliquod prolixioris calculi affeı, sit $a = 739$, pro quo numero Tabula nostra exhibet gem periodi:

7, 5, 2, 2, 1, 1, 3, 3, 2, 1, 8, 2, 1, 2, 1, 17, 2, 1, 1, 7, 5, 1, 10, (27)

ıissis igitur superfluis diagrammatis lineis, erit calculi x instituendi typus:

a = 739

	1	(5
	5	(2
	11	(2
	27	(1
	38	(1
	65	(3
	233	(3
	764	(2
	1761	(1
	2525	(8
	21961	(2
	46447	(1
	68408	(2
	183263	(1
	251671	(17
	4461670	(2
	9175011	(1
	13636681	(1
	22811692	(7
	173318525	(5
	889404317	(1
	1062722842	(10
	11516632737	(27)
	312011806741	(10
	3131634700147	(1
	3443646506888	(5
	20349867234587	(7
	145892717148997	(1
	166242584383584	(1
	312135301532581	(2
	790513187448746	(17
	13750859488161263	(1
	14541372675610009	(2
	42833604839381281	(1
	57374977514991290	(2
	157583559869363861	(8
	1318043456469902178	(1
	1475627016339266039	(2
	4269297489148434256	(3
	14283519483784568807	(3
	47119855940502140677	(1
	61403375424286709484	(1
	108523231364788850161	(2
	278449838153864409806	(2
Ergo $x_1 =$	665422907672517669773	(5
& $x =$	3605564376516452758671	(28
Jam ob $R =$	27	
reperietur $Rx =$	97350238165944224484117	
cui si add. $x_1 =$	665422907672517669773	
prodibit $y =$	98015661073616742153890	

ɜque tamen hoc compendio usi sumus ad valores radicis y mputandos, sed idem potius ceu lapidem lydium adhiıimus, quo explorare possemus, utrum recte se haberent lores x & y, eadem via seorsim inventi. Cum enim ıta numerorum mole, quantam sæpissime majores nuɜri a valores excient, nimis facile præstringatur oculom acies, a vero etiam facile aberrabitur in valore ipsius computando, quali, si determinationem radicis y superuxeris temere, utramque radicem falsam habebis; cum ıtra, utramque radicem seorsim computando et ad norım præscriptam comparando, ut numeros ex obrussa turos obtineamus, certis esse liceat. Insignem huius rtitudinis partem lubentes & grati fatemur nos debere lèrtiæ & peritiæ Viri, mathematicæ analyseos amantisni *Henrici Georgii a Smidten*, in exercitu S. R. M. jacıtibus tormenta bellica succenturiatus præfectus, qui larem complurium magnorum numerorum & computandom & nobiscum examinandorum ut promtissimo animo, ita indefesso studio, suscepit atque absolvit.

Non possum quin, antequam huic præfatiunculæ em faciam, *de singulari ea radicis* x *proprietate, qua sese factores solvi patitur, quantumvis magno demum nuɜro exprimatur*, pauca in medium afferam. Ita si reondentem ipsi $a = 487$ radicem in Tabula nostra quæs, invenies $x = 2352088722477$ quæ in factores primos solubilis deprehendetur. Est scil. $x = 3 \cdot 13 \cdot 137 \cdot 2383$ 84733. Ratio est in propatulo. Cum sit $y^2 = ax^2 + 1$ it $a = \frac{(y+1)}{x} \frac{(y-1)}{x}$. Quare, cum a sit integer, erit

ipsi x aut cum $y + 1$ aut cum $y - 1$ communis aliquis d visor, quo reperto ad ulteriorem reliquorum factorum ij sius x munitam esse viam facile intelligitur.

Habes hic L. B. quæ circa nostri laboris indolem & ra tionem breviter præmonere necessarium nobis videbatur. (Ut lætus eodem fruaris, ut temporis compendio ad abstr sissima numerorum mysteria Tibi aditum patefacias, tortuosos functionis hic amplius enucleatæ Mæandros acu visu perlustrans quæ alte lateant in apricum producas, d nique ut, si humani quid acciderit, humanissime idem in dicare atque corrigere velis, enixe atque verecunde sper rogo et obsecro.

(a) Superfluum est de alio & ab instituto nostro prorsus alieno præse tis Tabulæ usu monere. Cum scil. sit $y^2 = ax^2 \pm 1$, erit $\sqrt{a} =$ $\frac{1}{x}\sqrt{y^2 \mp 1} = \frac{y}{x} \mp \frac{1}{2xy}$ quam proxime. Dabit ergo eade *radices quadratas* ipsius a, quam proxime quoto $\frac{y}{x}$ æquale nec non, pro magnis ipsarum x & y valoribus, quotum $\frac{1}{2x}$ *errorem* accurate satis indicaturum.

TABULA I.

SOLUTIONEM AEQUATIONIS

$$y^2 - ax^2 - 1 = 0$$

EXHIBENS.

$y^2 - ax^2 - 1 = 0$

Mem.

$$N \mid \alpha . \beta . \gamma (\delta) .$$

means

$$N = \alpha + \cfrac{1}{\beta + \cfrac{1}{\gamma + \cfrac{1}{\delta + \cfrac{1}{\gamma + \cfrac{1}{\beta + \cfrac{1}{\alpha + N}}}}}}$$

$$N \mid \alpha . (\beta . \beta) .$$

$$N = \alpha + \cfrac{1}{\beta + \cfrac{1}{\beta + \cfrac{1}{\alpha + N}}}$$

[illegible] satisfy $\alpha^2 - D\beta^2 = 1$

& [illegible]

$a = \sqrt{\frac{\alpha - 1}{2}}$, $b = \frac{\beta}{2a}$ then a, b

satisfy $a^2 - Db^2 = -1$

[illegible]

1	1, (0) 1 0 0 1	2	1, (2) 1 1 2 3	3	1, (1) 1 2 1 2
4	2, (0) 1 0 0 1	5	2, (4) 1 1 4 9	6	2, (2) 1 2 2 5
7	2, 1, (1) 1 3 2 3 8	8	2, (1) 1 4 1 3	9	3, (0) 1 0 0 1
[illegible]	3, (6) 1 1 6 19	11	3, (3) 1 2 3 10	12	3, (2) 1 3 2 7
[illegible]	3, 1, (1, 1) 1 4 (3 3) 180 649	14	3, 1, (2) 1 5 2 4 15	15	3, (1) 1 6 1 4
[illegible]	4, (0) 1 0 0 1	17	4, (8) 1 1 8 33	18	4, (4) 1 2 4 17
[illegible]	4, 2, 1, (3) 1 3 5 2 39 170	20	4, (2) 1 4 2 9	21	4, 1, 1, (2) 1 5 4 3 12 55
[illegible]	4, 1, 2, (4) 1 6 3 2 42 197	23	4, 1, (3) 1 7 2 5 24	24	4, (1) 1 8 1 5

1–24

$(3+\sqrt{5})^3 = 8(9+4\sqrt{5})$

$(11+3\sqrt{13})^3 = 8(649+180\sqrt{13})$

$(5+\sqrt{21})^3 = 8(55+12\sqrt{21})$

25	5, (0) 1 0 0 1	26	5, (10) 1 1 10 51	27	5, (5) 1 2 5 26
28	5, 3, (2) 1 3 4 24 127	29	5, 2, (1, 1) 1 4 (5 5) 1820 9801	30	5, (2) 1 5 2 11
31	5, 1, 1, 3, (5) 1 6 5 3 2 273 1520	32	5, 1, (1) 1 7 4 3 17	33	5, 1, (2) 1 8 3 4 23
34	5, 1, (4) 1 9 2 6 35	35	5, (1) 1 10 1 6	36	6, (0) 1 0 0 1
37	6, (12) 1 1 12 73	38	6, (6) 1 2 6 37	39	6, (4) 1 3 4 25
40	6, (3) 1 4 3 19	41	6, (2, 2) 1 (5 5) 320 2049	42	6, (2) 1 6 2 13
43	6, 1, 1, 3, 1, (5) 1 7 6 3 9 2 531 3482	44	6, 1, 1, 1, (2) 1 8 5 7 4 30 199	45	6, 1, 2, (2) 1 9 4 5 24 161
46	6, 1, 3, 1, 1, 2, (6) 1 10 3 7 6 5 2 3588 24335	47	6, 1, (5) 1 11 2 7 48	48	6, (1) 1 12 1 7

$(27+5\sqrt{29})^3 = 8(9801+1820\sqrt{29})$ [illegible]

4 in an odd place +

49	7, (0) 1 0 0 1	50	7, (14) 1 1 14 99	51	7, (7) 1 2 7 50
52	7, 4, 1, (2) 1 3 9 4 90 649	53	7, 3, (1, 1) 1 4 (7 7) 9100 66249	54	7, 2, 1, (6) 1 5 9 2 66 485
55	7, 2, (2) 1 6 5 12 89	56	7, (2) 1 7 2 15	57	7, 1, 1, (4) 1 8 7 3 20 151
58	7, 1, 1, (1,1) 1 9 6 (7 7) 2574 19603	59	7, 1, 2, (7) 1 10 5 2 69 530	60	7, 1, (2) 1 11 4 4 31
61	7,1,4,3,1,(2,2) 1 12 3 4 9 (5 5) 226153980 1766319049	62	7, 1, (6) 1 13 2 8 63	63	7, (1) 1 14 1 8
64	8, (0) 1 0 0 1	65	8, (16) 1 1 16 129	66	8, (8) 1 2 8 65
67	8, 5, 2, 1, 1, (7) 1 3 6 7 9 2 5967 48842	68	8, (4) 1 4 4 33	69	8, 3, 3, 1, (4) 1 5 4 11 3 936 7775
70	8, 2, 1, (2) 1 6 9 5 30 251	71	8, 2, 2, 1, (7) 1 7 5 11 2 413 3480	72	8, (2) 1 8 2 17

73	8, 1, 1, (5, 5) 1 9 8 (3 3) 267000 2281249	74	8, 1, (1, 1) 1 10 (7 7) 430 3699
75	8, 1, (1) 1 11 6 3 26	76	8, 1, 2, 1, 1, 5, (4) 1 12 5 8 9 3 4 6630 57799
77	8, 1, 3, (2) 1 13 4 7 40 351	78	8, 1, (4) 1 14 3 6 53
79	8, 1, (7) 1 15 2 9 80	80	8, (1) 1 16 1 9
81	9, (0) 1 0 0 1	82	9, (18) 1 1 18 163
83	9, (9) 1 2 9 82	84	9, (6) 1 3 6 55
85	9, 4, (1, 1) 1 4 (9 9) 30996 285769	86	9, 3, 1, 1, 1, (8) 1 5 10 7 11 2 1122 10405
87	9, (3) 1 6 3 28	88	9, 2, 1, (1) 1 7 9 8 21 197

89	9, 2, (3, 3) 1 8 (5 5) 53000 500001	90	9, (2) 1 9 2 19
91	9, 1, 1, 5, (1) 1 10 9 3 14 165 1574	92	9, 1, 1, 2, (4) 1 11 8 7 4 120 1151
93	9, 1, 1, 1, 4, (6) 1 12 7 11 4 3 1260 12151	94	9, 1, 2, 3, 1, 1, 5, 1, (8) 1 13 6 5 9 10 3 15 2 221064 2143295
95	9, 1, (2) 1 14 5 4 39	96	9, 1, (3) 1 15 4 5 49
97	9, 1, 5, 1, 1, (1, 1) 1 16 3 11 8 (9 9) 6377352 62809633	98	9, 1, (8) 1 17 2 10 99
99	9, (1) 1 18 1 10	100	10, (0) 1 0 0 1
01	10, (20) 1 1 20 201	102	10, (10) 1 2 10 101
03	10, 6, 1, 2, 1, 1, (9) 1 3 13 6 9 11 2 22419 227528	104	10, (5) 1 4 5 51

105	10, (4) 1 5 4 41	106	10, 3, 2, 1, (1, 1) 1 6 7 10 (9 9) 3115890 32080051
107	10, 2, 1, (9) 1 7 13 2 93 962	108	10, 2, 1, 1, (4) 1 8 9 11 4 130 1351
109	10, 2, 3, 1, 2, 4, 1, (6, 6) 1 9 5 12 7 4 15 (3 3) 15140424455100 158070671986249	110	10, (2) 1 10 2 21
111	10, 1, 1, (6) 1 11 10 3 28 295	112	10, 1, 1, (2) 1 12 9 7 12 127
113	10, 1, 1, 1, (2, 2) 1 13 8 11 (7 7) 113296 1204353	114	10, 1, 2, (10) 1 14 7 2 96 1025
115	10, 1, 2, 1, 1, (1) 1 15 6 11 9 10 105 1126	116	10, 1, 3, 2, 1, (4) 1 16 5 7 13 4 910 9801
117	10, 1, 4, (2) 1 17 4 9 60 649	118	10, 1, 6, 3, 2, (10) 1 18 3 6 9 2 28254 306917
119	10, 1, (9) 1 19 2 11 120	120	10, (1) 1 20 1 11

21	11, (0) 1 0 0 1	122	11, (22) 1 1 22 243
23	11, (11) 1 2 11 122	124	11, 7, 2, 1, 1, 1, 3, 1, (4) 1 3 8 11 9 12 15 15 4 414960 4620799
25	11, 5, (1, 1) 1 4 (11 11) 83204 930249	126	11, 4, (2) 1 5 9 40 449
27	11, 3, 1, 2, 2, 7, (11) 1 6 13 7 9 3 2 419775 4730624	128	11, 3, (5) 1 7 4 51 577
29	11, 2, 1, 3, 1, (6) 1 8 13 5 16 3 1484 16855	130	11, (2, 2) 1 (9 9) 570 6499
31	11, 2, 4, (11) 1 10 5 2 927 10610	132	11, (2) 1 11 2 23
33	11, 1, 1, 7, 5, 1, 1, 1, (2) 1 12 11 3 4 13 9 12 7 224460 2588599	134	11, 1, 1, 2, 1, 3, 1, (10) 1 13 10 7 14 5 17 2 12606 145925
35	11, 1, 1, 1, (1) 1 14 9 11 10 21 244	136	11, 1, (1) 1 15 8 3 35

137	11, 1, 2, 2, (1, 1) 1 16 7 8 (11 11) 519712 6083073	138	11, 1, (2) 1 17 6 4 47
139	11,1,3,1,3,7,1,1,2(11) 1 18 5 15 6 3 13 10 9 2 6578829 77563250	140	11, 1, (4) 1 19 4 6 71
141	11, 1, (6) 1 20 3 8 95	142	11, 1, (10) 1 21 2 12 143
143	11, (1) 1 22 1 12	144	12, (0) 1 0 0 1
145	12, (24) 1 1 24 289	146	12, (12) 1 2 12 145
147	12, (8) 1 3 8 97	148	12, (6) 1 4 6 73
149	12, 4, 1, 5, (3, 3) 1 5 17 4 (7 7) 2113761020 25801741449	150	12, (4) 1 6 4 49
151	12,3,2,7,1,3,4,1,1,1,(11) 1 7 10 3 17 6 5 14 9 15 2 140634693 1728148040	152	12, (3) 1 8 3 37

153	12, 2, 1, 2, (2) 1 9 13 8 9 176 2177	154	12, 2, 2, 3, 1, (2) 1 10 9 6 15 7 1716 21295
155	12, 2, (4) 1 11 5 20 249	156	12, (2) 1 12 2 25
157	12, 1, 1, 7, 1, 5, 2, 1, (1, 1) 1 13 12 3 19 4 9 12 (11 11) 3726964292220 46698728731849	158	12, 1, 1, 3, (12) 1 14 11 7 2 616 7743
159	12, 1, 1, 1, 1, (3) 1 15 10 11 13 6 105 1324	160	12, 1, 1, 1, (5) 1 16 9 15 4 57 721
161	12, 1, 2, 4, 1, (2) 1 17 8 5 16 7 928 11775	162	12, 1, 2, 1, 2, (12) 1 18 7 14 9 2 1540 19601
163	12, 1, 3, 3, 2, 1, 1, 7, 1, (11) 1 19 6 7 9 11 14 3 21 2 5019135 64080026	164	12, 1, 4, (6) 1 20 5 4 160 2049
165	12, 1, 5, (2) 1 21 4 11 84 1079	166	12, 1, 7, 1, 1, 1, 2, 4, 1, 3, 2 (12) 1 22 3 15 10 13 9 5 17 6 11 2 132015642 1700902565
167	12, 1, (11) 1 23 2 13 168	168	12, (1) 1 24 1 13

169	13, (0) 1 0 0 1	170	13, (26) 1 1 26 339
171	13, (13) 1 2 13 170	172	13, 8, 1, 2, 2, 1, 1, 3, (6 1 3 17 8 9 12 13 7 4 1848942 24248647
173	13, 6, (1, 1) 1 4 (13 13) 190060 2499849	174	13, 5, (4) 1 5 6 110 1451
175	13, 4, 2, (1) 1 6 9 14 153 2024	176	13, 3, (1) 1 7 16 15 199
177	13, 3, 3, 2, (8) 1 8 7 11 3 4692 62423	178	13, 2, 1, (12) 1 9 17 2 120 1601
179	13, 2, 1, 1, 1, 3, 5, (13) 1 10 13 11 14 7 5 2 313191 4190210	180	13, 2, (2) 1 11 9 12 161
181	13, 2, 4, 1, 8, 6, 1, 1, 1, 1, (2,2) 1 12 5 20 3 4 15 11 12 13 (9 9) 18356729868346194O 246964542382418580 1	182	13, (2) 1 13 2 27
183	13, 1, 1, (8) 1 14 13 3 36 487	184	13, 1, 1, 3, 2, 1, (2) 1 15 12 7 9 15 8 1794 24335

5	13, 1, (1, 1) 1 16 (11 11) 680 9249	186	13, 1, 1, 1, 3, (4) 1 17 10 15 7 6 550 7501
7	13, 1, 2, (13) 1 18 9 2 123 1682	188	13, 1, 2, 2, (6) 1 19 8 11 4 336 4607
9	13, 1, (2) 1 20 7 4 55	190	13, 1, 3, 1, 1, 1, 2, (2) 1 21 6 15 11 14 9 10 3774 52021
1	13, 1, 4, 1, 1, 3, 2, 2(13) 1 22 5 14 13 7 10 11 2 650783 8994000	192	13, 1, (5) 1 23 4 7 97
3	13, 1, 8, 3, 2, 1, (3, 3) 1 24 3 8 9 16 (7 7) 448036604040 6224323426849	194	13, 1, (12) 1 25 2 14 195
5	13, (1) 1 26 1 14	196	14, (0) 1 0 0 1
7	14, (28) 1 1 28 393	198	14, (14) 1 2 14 197
9	14, 9, 2, 1, 2, 2, 5, 4, 1, 1, (13) 1 3 10 15 9 11 5 6 13 15 2 1153080099 16266196520	200	14, (7) 1 4 7 99

201	14,	5,	1,	1,	1,	2,	1,	(8)
	1	5	16	11	15	8	19	3
	36332							
	515095							
202	14,	4,	1,	(2,	2)			
	1	6	17	(9	9)			
	1388322							
	19731763							
203	14,	(4)						
	1	7						
	4							
	57							
204	14,	3,	1,	1,	(6)			
	1	8	13	15	4			
	350							
	4999							
205	14,	3,	6,	1,	(4)			
	1	9	4	21	5			
	2772							
	39689							
206	14,	2,	1,	5,	(14)			
	1	10	17	5	2			
	4148							
	59535							
207	14,	2,	1,	1,	(2)			
	1	11	13	14	9			
	80							
	1151							
208	14,	2,	2,	(1)				
	1	12	9	16				
	45							
	649							

9	14, 2, 5, 3, (2) 1 13 5 8 11 3220 46551
10	14, (2) 1 14 2 29
11	14, 1, 1, 9, 5, 1, 2, 2, 1, 1, 4, 3, 1, (13) 1 15 14 3 6 18 9 10 13 15 6 7 21 2 19162705353 278354373650
12	14, 1, 1, 3, 1, 1, 1, (6) 1 16 13 7 16 11 17 4 4550 66249
13	14, 1, 1, 2, 6, 1, (8) 1 17 12 11 4 23 5 13320 194399
14	14, 1, 1, 1, 2, 3, 1, 4, 9, 1, 1, 5, 3, (14) 1 18 11 15 10 7 19 6 3 15 14 5 9 2 47533775646 695359189925
5	14, 1, (1) 1 19 10 3 44
6	14, 1, 2, (3) 1 20 9 8 33 485

217	14, 1, 2, 1, 2, 1, 1, 9, (4) 1 21 8 17 9 13 16 3 7 260952 3844063	218	14, 1, (3, 3) 1 22 (7 7) 8534 126003
219	14, 1, (3) 1 23 6 5 74	220	14, 1, (4) 1 24 5 6 89
221	14, 1, 6, (2) 1 25 4 13 112 1665	222	14, 1, (8) 1 26 3 10 149
223	14, 1, (13) 1 27 2 15 224	224	14, (1) 1 28 1 15
225	15, (0) 1 0 0 1	226	15, (30) 1 1 30 451
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965	31, 15, (1, 1) 1 4 (31 31) 14374204 446526729
966	31, 12, 2, (2) 1 5 25 21 1850 57499
967	31, 10, 2, 1, 6, 4, 3, 2, 2, 1, 1, 8, 3, 2, 1, 20, (31) 1 6 21 38 9 14 17 23 21 27 34 7 18 19 42 3 2 149518887194649693 4649532557817485528
968	31, 8, 1, (6) 1 7 49 8 630 19601

969	31, 7, 1, 3, 3, 1, 1, 1, (2) 1 8 43 15 16 33 25 32 19 436540 13588951
970	31, 6, 1, 9, (1, 1) 1 9 49 6 (31 31) 6915917802 215395035859
971	31, 6, 4, 1, 1, 1, 2, 5, 3, 2, 10, (31) 1 10 13 34 25 31 22 11 17 26 5 2 400496058813 12479806786330
972	31, 5, 1, 1, 1, 7, 6, 1, 3, 1, (14) 1 11 36 23 37 8 9 44 13 47 4 316368130 9863382151
973	31, 5, 5, 2, (8) 1 12 11 27 7 28956 903223
974	31, 4, 1, 3, 1, 1, 1, 11, 1, 5, 3, 8, 1, 1, 1, 1, (30) 1 13 41 14 35 23 38 5 49 10 19 7 35 26 25 37 2 15662987185124 488825745235215
975	31, 4, (2) 1 14 25 40 1249
976	31, 4, 6, 1, 2, 3, 1, 4, 2, (3) 1 15 9 39 20 15 41 12 25 16 56538495 1766319049

977	31, 3, 1, 8, 5, 1, 1, 3, 7, (1, 1) 1 16 43 7 11 32 29 17 8 (31 31) 3481871275306470280 108832847723078562849
978	31, 3, 1, 1, 1, (30) 1 17 34 23 39 2 3784 118337
979	31, 3, 2, 5, 1, (4) 1 18 25 10 45 11 11520 360449
980	31, 3, 3, 1, 1, (2) 1 19 16 31 29 20 1656 51841
981	31, 3, 8, 1, 1, 1, 1, 1, 1, 2, 1, 1, 15, 12, 2, (6) 1 20 7 36 25 29 28 27 31 20 27 35 4 5 28 9 5046808151700 158070671986249
982	31, 2, 1, (30) 1 21 41 2 282 8837
983	31, 2, 1, 5, (31) 1 22 37 11 2 9061 284088
984	31, 2, 1, 2, 2, (7) 1 23 33 20 25 8 2831 88805

985	31, 2, (1, 1) 1 24 (29 29) 10608 332929
986	31, (2, 2) 1 (25 25) 1570 49299
987	31, 2, (2) 1 26 21 12 377
988	31, 2, 3, 4, 1, 20, 6, 1, (14) 1 27 17 12 49 3 9 51 4 462879684 14549450527
989	31, 2, 4, 2, 1, 11, 1, 8, 15, 1, 1, 1, 1, 2, 1, 2, (2) 1 28 13 20 41 5 52 7 4 37 25 28 31 19 35 20 23 17497618534396 550271588560695
990	31, 2, (6) 1 29 9 28 881
991	31, 2, 12, 10, 2, 2, 2, 1, 1, 2, 6, 1, 1, 1, 1, 3, 1, 8, 1 30 5 6 25 22 21 30 29 23 9 35 26 27 33 14 45 7 { 4, 1, 2, 1, 2, 3, 1, 4, 1, 20, 6, 4, (31) { 13 39 18 35 21 15 42 11 50 3 10 15 2 120557357903313594474425387 67 3795164009068119306380148960 80
992	31, (2) 1 31 2 63

993	31, 1, 1, (20) 1 32 31 3 84 2647
994	31, 1, 1, (8) 1 33 30 7 36 1135
995	31, 1, 1, 5, 4, 3, (12) 1 34 29 11 14 19 5 280120 8835999
996	31, 1, 1, 3, 1, 2, 2, 1, 1, 1, (4) 1 35 28 15 37 20 21 32 25 35 12 271038 8553815
997	31, 1, 1, 2, 1, 4, (1, 1) 1 36 27 19 39 12 (31 31) 456624468 14418057673
998	31, 1, 1, 2, 4, 8, 1, 3, 1, (30) 1 37 26 23 14 7 26 13 49 2 31150410 984076901
999	31, 1, 1, 1, 1, 5, 6, 1, 5, (2) 1 38 25 27 34 11 9 47 10 27 3248924 102688615
1000	31, 1, 1, 1, 1, 1, 6, 2, 2, (15) 1 39 24 31 25 36 9 24 25 4 1248483 39480499

TABULA II.

SOLUTIONEM AEQUATIONIS

$$y^2 - ax^2 + 1 = 0$$

QUOTIESCUNQUE VALOR IPSIUS a
TALEM ADMISERIT,

EXHIBENS.

[illegible]

but $a = \beta^2 + 1$ where obviously
$y = \beta$, $x = 1$ is not contained in the
table

NOTA. Sequentis tabulæ cum præcedente collatio monstrabit, heic non nisi eos ipsius *a* valores occurrere, qui in tab. I. sibi respondentes habeant series gemino numero uncinulis incluso terminatas.

13	5 18	29	13 70
41	5 32	53	25 182
58	13 99	61	3805 29718
73	125 1068	74	5 43
85	41 378	89	53 500
97	569 5604	106	389 4005
109	851525 8890182	113	73 776
125	61 682	130	5 57
137	149 1744	149	9305 113582
157	385645 4832118	173	85 1118
181	82596761 1111225770	185	5 68
193	126985 1764132	202	221 3141
218	17 251	229	113 1710
233	1517 23156	241	4574225 71011068
250	281 4443	265	373 6072
269	5 82	274	85 1407

277	535979945 8920484118	281	63445 1063532
293	145 2482	298	23725 409557
313	7170685 126862368	314	25 443
317	19805 352618	337	55335641 1015827336
338	13 239	346	5 93
349	493 9210	353	3793 71264
365	181 3458	370	17 327
373	265 5118	389	65 1282
394	19900973 395023035	397	1027776565 20478302982
409	5534176685 111921796968	421	2146497463530785 44042445696821418
425	13 268	433	347483377 7230660684
445	221 4662	449	8941705 189471332
457	2764111349 59089951584	458	5 107
461	1132421 24314110	481	43961 964140
493	30805 683982	509	17540333 395727950
521	5624309 128377240	533	265 6118

38	2977 69051	541	58536158470221581 1361516316469227450
54	7405 174293	557	5 118
55	620633 14752278	569	121359005 2894863832
36	169992665 4115086707	593	24665 600632
01	5689030769845 139468303679532	610	2909 71847
13	19454612624065 481673579088618	617	1650989 41009716
29	313 7850	634	2621173333 65999458125
41	1426687145 36120833468	653	89664965 2291286382
61	111453260296346905 2865454435422583218	673	1881620424025 48813455293932
35	8353189 218623878	697	5 132
98	193 5099	701	445 11782
99	685217 18245310	733	365 9882
46	202645 5534843	754	745 20457
57	49769 1369326	761	29 800
69	590222604844777 16367374077549540	773	48305 1343018
78	1957873 54610269	794	1073 30235

797	875485 24715982	809	15253424933 433852026040
818	5 143	821	74038651465 2121436703918
829	537965 15489282	845	421 12238
853	355375843945 10379165085018	857	277325 8118568
865	11844089 348345108	877	8149 241326
881	3581882825 106316171432	914	185 5593
922	13808525 419288307	925	29 882
929	2667927065 81317086468	937	16015008052621 490226695010796
941	23832181 731069390	949	566738044393 17458843558590
953	88979677 2746864744	965	481 14942
970	10537 328173	977	236003105 7376748868
985	13 408	986	5 157
997	2689 84906		

797–997

ERRATA. Tab. I. pag. 17. apud $a = 238$ pro x lege 756

F I N I S.